

ASBESTOS MATERIALS SURVEY

Report Date: August 15, 2013

Client: Ann Arbor Housing Commission

Site Address: 221-253 South Seventh Street
Ann Arbor, Michigan

AKT Peerless Project #: 8358e-6-190

SECTION I - ASBESTOS INSPECTION

AKT Peerless conducted field sampling for suspect asbestos containing materials on August 8, 2013. The following suspect materials were identified at the site:

SUSPECT MATERIALS SUMMARY (ASBESTOS MATERIALS IN BOLD CAPS)

Material Description	Material Classification	Function Space (FS) Location	HA No.	Approximate Quantity	EPA Category	Asbestos Content
Building 1 – Units 221 and 223						
Drywall	MM	Throughout both units	HA-01	NE	C2	ND
12" White with tan streaks floor tile	MM	Unit 223 kitchen and hallway/utility areas	HA-02	140 SF	C1	ND
12" Blue floor tile	MM	Unit 221 kitchen and hallway/utility areas	HA-03	140 SF	C1	ND
Roofing Material	MM	Exterior	HA-04	NE	C2	ASSUMED ACM
Building 2 – Units 231 and 233						
Drywall	MM	Throughout both units	HA-05	NE	C2	ND
12" Blue floor tile	MM	Unit 233 kitchen and hallway/utility areas	HA-06	140 SF	C1	ND
12" White with tan streaks floor tile	MM	Unit 231 kitchen and hallway/utility areas	HA-07	140 SF	C1	ND
Textured Ceiling Paint	MM	Unit 231 living room, kitchen, hallway/utility area	HA-08	400 SF	C2	ND
Roofing Material	MM	Exterior	HA-09	NE	C2	ASSUMED ACM
Building 3 - Units 241 and 243						
Drywall	MM	Throughout both units	HA-01	NE	C2	ND

Material Description	Material Classification	Function Space (FS) Location	HA No.	Approximate Quantity	EPA Category	Asbestos Content
12" Blue floor tile	MM	Unit 243 kitchen and hallway/utility area	HA-02	140 SF	C1	ND
12" Tan floor tile	MM	Unit 241 kitchen and hallway/utility areas	HA-03	140 SF	C1	ND
4" Black cove base	MM	Unit 241 kitchen and hallway/utility areas	HA-04	15 SF	C2	ND
Roofing Material	MM	Exterior	HA-05	NE	C2	ASSUMED ACM
Building 4 - Units 251 and 253						
Drywall	MM	Throughout both units	HA-01	NE	C2	ND
12" Off white with specks floor tile	MM	Unit 251 kitchen and hallway/utility area	HA-02	140 SF	C1	ND
12" Off white and tan floor tile	MM	Unit 253 kitchen and hallway/utility area	HA-03	140 SF	C1	ND
Roofing Material	MM	Exterior	HA-04	NE	C2	ASSUMED ACM

Key: F = Friable; NF = Non-friable; FS = Functional Space; ND = No Asbestos Detected; CHR = Chrysotile; AMO = Amosite; SF = Square Feet; LF = Linear Feet; CF = Cubic Feet; MF = Mud Fittings; Classification: SM = Surfacing Material; TSI = Thermal System Insulation; MM = Miscellaneous Material; EPA Material Categories: FR = Friable Regulated; C2 = Category II Non-friable; C1 = Category I Non-friable; NE = Not Estimated

Recommendations:

1. Non-friable roofing materials are assumed to contain asbestos and do not require removal ahead of renovation or demolition activities, unless building materials will be recycled or the roofing will be made friable.

Samples were collected by a State of Michigan Department of Licensing and Regulatory Affairs (LARA) Michigan Occupational Safety & Health Administration (MIOSHA) -Asbestos Program accredited Asbestos Inspector.

Laboratory results are included in Attachment 1. The methodology followed to complete the asbestos survey is included in Attachment 2.

LIMITATIONS

The information and opinions obtained in this report are for the exclusive use of the Ann Arbor Housing Commission. AKT Peerless will not distribute this report without Client's written consent or as required by law or by a Court order. Report contents must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein.

Quantities of identified asbestos containing and other hazardous materials reported are provided for reference only.

Prepared by:

AKT PEERLESS ENVIRONMENTAL AND ENERGY SERVICES



Carl D. Rogers
Environmental Consultant
MIOSHA CSHD Asbestos Inspector
Accreditation Number: A36205

Reviewed by:



James C. Fox, RPIH
Sr. Project Manager
MIOSHA CSHD Asbestos Inspector, Management Planner, Project Designer
Accreditation Number: A3152

ATTACHMENT 1

Asbestos Laboratory Results and Chain of Custody

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
 Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: ART Peckers
 Address: _____
 City, St., Zip: Farmington
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8-8-13
 Project: AHC S. Seventh Building #1
 Project # 8358e-6-190
 Contact Person: Carl Rogers
rogersc@artpeckers.com

Turn Around Times: (Circle One) *****Terms and conditions on the other side.**

- Rush _____ 24 hour _____
- 48 hour _____ 12 hour X _____
- Other: TTP _____ (Test-till Positive) _____
- Asbestos: Bulk X Wipe _____ Point Count _____ PCM _____
- Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
- Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
- TEM: Bulk/NOP _____ AHERA _____ BPA Level II _____ Other _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1.1	Drywall			
2	1.2	"			
3	2.1	12" white w/ tan streaks floor tile			
4	2.2	"			
5	3.1	12" Blue Floor Tile			
6	3.2	"			
		REC'D			
		AUG 08 2015			

Relinquished By: _____
 Date: 8/8/13

Received By: Paul
 Date: _____

Relinquished By: RESEARCH
 Date: _____

Relinquished By: _____
 Date: _____

Revision Date: December 2006

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC S. Seventh Building #1
Project # 8358e-6-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47138
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47138 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47138 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: beige, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47138 - 03 Cust. #: 2.1 Material: 12" White w/Tan Streaks Floor Tile Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



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Project # 8358e-6-190

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Farmington, MI 48336

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Date Collected: 08/08/13
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Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47138 - 03a Cust. #: 2.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47138 - 04 Cust. #: 2.2 Material: 12" White w/Tan Streaks Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47138 - 04a Cust. #: 2.2 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47138 - 05 Cust. #: 3.1 Material: 12" Blue Floor Tile Location: Appearance: blue,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47138 - 06 Cust. #: 3.2 Material: 12" Blue Floor Tile Location: Appearance: blue,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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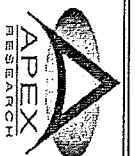


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47137

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11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
 Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: AKT Peerless
 Address: 22725 Orchard Lake Rd
 City, St., Zip: Farmington, MI
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/8/13
 Project: AHCS Seventh Building #2
 Project # 8358e-g-190
 Contact Person: Carl Rogers

Turn Around Times: (Circle One)

***Terms and conditions on the other side.
rogers@aktpeerless.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Rush 24 hour 72 hour Other: TRP (Test Till Positive)

Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	5.1	DRYWALL			
2	5.2	"			
3	6.1	12" Blue Floor Tile			
4	6.2	"			
5	7.1	12" White w/ Tan Streaks E.T.			
6	7.2	"			
7	8.1	Textured Ceiling Part			

Relinquished By: [Signature] Date: 8/8/13
 Received By: [Signature] Date: 1/10
 Relinquished By: [Signature] Date: _____
 Relinquished By: [Signature] Date: _____



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC S. Seventh Bldg. #2
Project # 8358e-6-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47137
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47137 - 01 Cust. #: 5.1 Material: Drywall Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47137 - 02 Cust. #: 5.2 Material: Drywall Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47137 - 03 Cust. #: 6.1 Material: 12" Blue Floor Tile Location: Appearance: blue, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47137 - 03a Cust. #: 6.1 Material: Glue Location: Appearance: yellow, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 47137 - 04 Cust. #: 6.2 Material: 12" Blue Floor Tile Location: Appearance: blue, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47137 - 04a Cust. #: 6.2 Material: Glue Location: Appearance: yellow, fibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%

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Date Collected: 08/08/13
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Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47137 - 05 Cust. #: 7.1 Material: 12" White w/Tan Streaks FT Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47137 - 05a Cust. #: 7.1 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47137 - 06 Cust. #: 7.2 Material: 12" White w/Tan Streaks FT Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47137 - 06a Cust. #: 7.2 Material: Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47137 - 07 Cust. #: 8.1 Material: Textured Ceiling Paint Location: Appearance: white,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

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47136

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 Web Site: <http://apexresearch-inc.com> Email: Bob.Letarte@apexresearchlab.com



Client Name: ART Peerless
 Address: 22725 Orchard Lake Rd
 City, St., Zip: Farmington, MI
 Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8-8-13
 Project: AHC South Seventh Bldg. 3
 Project # 8358e-g-190
 Contact Person: Carl Rogers

Turn Around Times: (Circle One)

***Terms and conditions on the other side.

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Rush _____ 24 hour _____
 48 hour _____ 72 hour _____
 Other: _____ TTP _____
 (Test Till Positive)

Asbestos: Bulk _____ Wipe _____ Point Count _____ PCM _____
 Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
 Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
 TEM: Bulk/NOF _____ AHERA _____ BPA Level II _____ Other _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1.1	DRYWALL			
2	1.2	"			
3	2.1	12" Blue Floor tile			
4	2.2	"			
5	3.1	Asbestos 12" TAN 5/8" TILE			
6	3.2	"			
7	4.1	4" BLACK Core Base			
8	4.2	"			
				RECEIVED	
				AUG 08 2013	

Relinquished By: _____ Received By: _____ Relinquished By: _____
 Date: 8/8/13 Date: _____ Date: _____
 Revision Date: December/2006



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC South Seventh Bldg. 3
Project # 8358e-6-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47136
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47136 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47136 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: grey, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%
Lab ID #: 47136 - 03 Cust. #: 2.1 Material: 12" Blue Floor Tile Location: Appearance: blue, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47136 - 04 Cust. #: 2.2 Material: 12" Blue Floor Tile Location: Appearance: blue,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47136 - 05 Cust. #: 3.1 Material: 12" Tan Floor Tile Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47136 - 05a Cust. #: 3.1 Material: Mortar Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47136 - 06 Cust. #: 3.2 Material: 12" Tan Floor Tile Location: Appearance: beige, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47136 - 07 Cust. #: 4.1 Material: 4" Black Cove Base Location: Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47136 - 08 Cust. #: 4.2 Material: 4" Black Cove Base Location: Appearance: brown, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Web Site: <http://apexresearch-inc.com> Email: Bob.Lefante@apexresearchlab.com



Client Name: AKT Beerless
Address: Farmington
City, St., Zip: Farmington
Phone: 248-615-1333 Fax: 248-615-1334

Date of Survey: 8/18/13
Project: AHC S. Seventh Building
Project # 8358E-6-190
Contact Person: Carl Rogers

Turn Around Times: (Circle One)

Rush 24 hour Asbestos: Bulk Wipe _____ Point Count _____ PCM _____
48 hour 72 hour Lead: Bulk _____ Wipe _____ Air _____ Paint _____ Soil _____
Other: TTP Mold: Bulk _____ Tape _____ BioSIS _____ Other _____ Viable _____
(Test-TM Positive) TEM: Bulk/NOP _____ AHERA _____ EPA Level II _____ Other _____

***Terms and conditions on the other side.
rogersceakbeerless.com

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

Laboratory ID #	Customer ID #	Material/Location	Volume	Area	Results
1	1,0,1	"Drywall"			
2	1,0,2	" "			
3	2,0,1	12" off white w/specks floor Tile			
4	2,0,2	" "			
5	3,0,1	12" off white floor Tile			
6	3,0,2	" "			

Relinquished By: [Signature] Received By: [Signature]
Date: 8/18/13 Date: 1/10
Revision Date: December/2006

RECEIVED
AUG 18 2013

APEX RESEARCH



Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project: AAHC S. Seventh Building 4
Project # 8358e-6-190

Report To:

Mr. Carl Rogers
AKT Peerless
22725 Orchard Lake Rd.
Farmington, MI 48336

ARI Report # 13-47134
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47134 - 01 Cust. #: 1.1 Material: Drywall Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 70% Fiberglass - 2% Other - 28%
Lab ID #: 47134 - 02 Cust. #: 1.2 Material: Drywall Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 40% Fiberglass - 2% Other - 58%
Lab ID #: 47134 - 03 Cust. #: 2.1 Material: 12" Off White w/Specks Floor Tile Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate may not be used by the customer to claim product endorsement by NVLAP or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



NVLAP Lab Code 102118-0



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Project: AAHC S. Seventh Building 4
Project # 8358e-6-190

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ARI Report # 13-47134
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47134 - 03a Cust. #: 2.1 Material: Mastic Location: Appearance: black,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47134 - 04 Cust. #: 2.2 Material: 12" Off White w/Specks Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47134 - 04a Cust. #: 2.2 Material: Mastic Location: Appearance: black,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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ARI Report # 13-47134
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47134 - 05 Cust. #: 3.1 Material: 12" Off White & Tan Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47134 - 05a Cust. #: 3.1 Material: Mastic Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 47134 - 06 Cust. #: 3.2 Material: 12" Off White & Tan Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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ARI Report # 13-47134
Date Collected: 08/08/13
Date Received: 08/08/13
Date Analyzed: 08/13/13
Date Reported: 08/13/13

Sample Information	Asbestos Type/Percent	Non-Asbestos
Lab ID #: 47134 - 06a Cust. #: 3.2 Material: Mastic Location: Appearance: yellow, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	
Lab ID #: Cust. #: Material: Location: Appearance: Layer: of	Asbestos Present:	

For Layered Samples, each component will be analyzed and reported separately.

Robert T. Letarte Jr., Laboratory Director

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NVLAP Lab Code 102118-0

ATTACHMENT 2

Asbestos Survey Methodology

ASBESTOS SURVEY METHODOLOGY

The asbestos survey was performed according to the following methodology:

1. Numerical functional space (FS) designations were assigned to each space in the structure. In general, an FS is defined as a spatially distinct room or area within the building. Functional Spaces also include attics, closets and basements. For clarification, functional space designations were field marked in each space.
2. Suspect Homogeneous Areas (HA) i.e., materials, were inventoried by type based on appearance and other characteristics. Building materials suspect for asbestos content were described based on one of three material classifications:
 - Surfacing Materials (SM):** Sprayed-on, troweled-on, or otherwise applied to surfaces, such as friable acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.
 - Thermal System Insulation (TSI):** Material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.
 - Miscellaneous Materials (MM):** A building material on structural components, structural members, or fixtures, such as non-friable hard-wall and ceiling plaster, floor and ceiling tiles, and does not include surfacing material or thermal system insulation.
3. When a material is determined to be asbestos-containing either through sampling and laboratory analysis or by assumption, the material is grouped into one of three categories: 1) friable regulated asbestos 2) Category II non-friable asbestos or 3) Category I nonfriable asbestos. All friable regulated materials and Category II non-friable materials that will become friable during demolition were sampled. Category I non-friable materials were not sampled but were assumed asbestos-containing. Category I non-friable materials do not become friable during demolition and do not require removal unless the substrate will be recycled.
4. All samples collected were submitted with chain-of-custody documentation to an analytical laboratory that participates in the National Voluntary Laboratory Accreditation Program (NVLAP). All samples were analyzed using polarized light microscopy (PLM) with dispersion staining following United States Environmental Protection Agency (USEPA) Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook.
5. A Test-Till-Positive (TTP) approach to laboratory analysis was utilized for the samples. TTP involves analyzing samples by homogeneous area groupings. Laboratory analyses were performed sample by sample within each homogeneous area grouping until a sample was determined to be asbestos containing, then no additional samples in that grouping were analyzed.